

FIG. 1

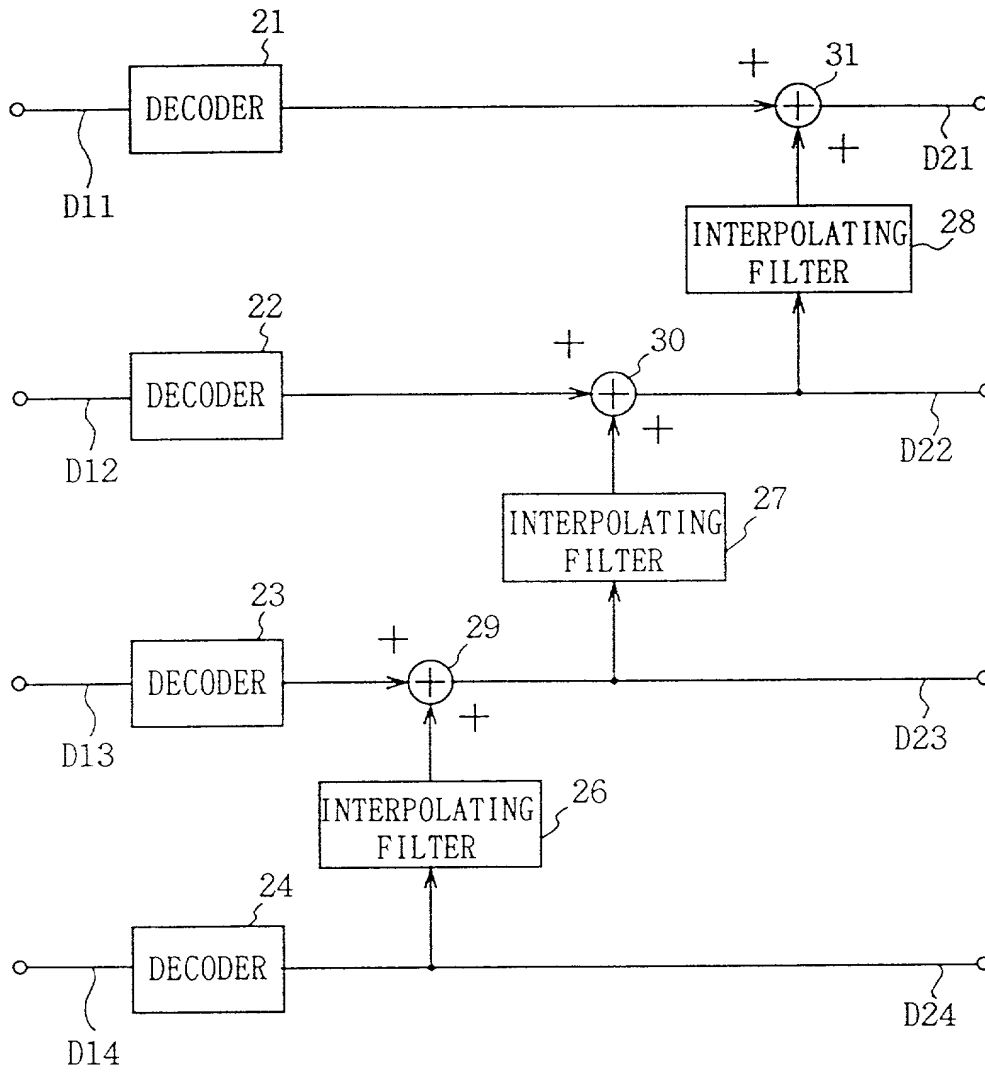
20

FIG. 2

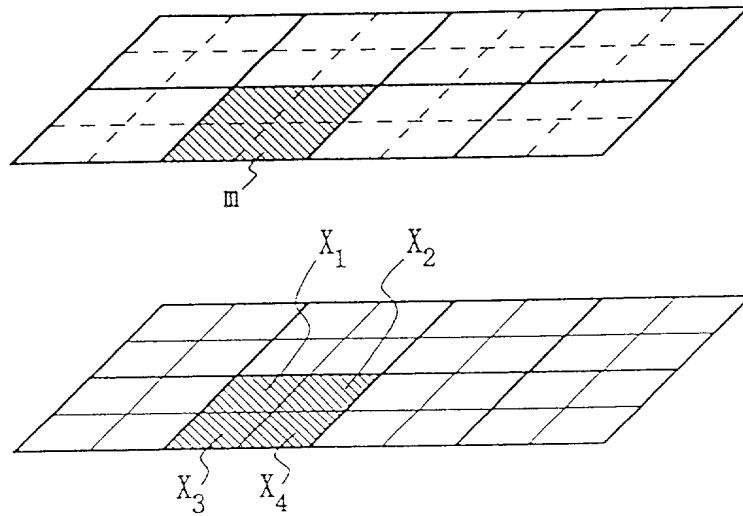


FIG. 3

	DIVISION INHIBITING CONDITION TO LOWER HIERARCHY (MAXIMUM DIFFERENCE DATA $\leq$ THRESHOLD VALUE)					
STANDARD PICTURES	ERROR $\leq 1$	ERROR $\leq 2$	ERROR $\leq 3$	ERROR $\leq 4$	ERROR $\leq 5$	ERROR $\leq 6$
SKIN-COLOR CHART	0. 56	0. 29	0. 21	0. 19	0. 17	0. 15
YACHT HARBOR	0. 86	0. 74	0. 65	0. 59	0. 53	0. 48
SWEATER AND BAG	0. 81	0. 59	0. 44	0. 35	0. 29	0. 24
EIFFEL TOWER	0. 59	0. 38	0. 30	0. 26	0. 24	0. 22
HAT SHOP	0. 82	0. 65	0. 53	0. 45	0. 40	0. 35
LOVERS IN SNOW	0. 65	0. 35	0. 23	0. 18	0. 14	0. 12
INFORMATION BOARD FOR TOURIST	0. 75	0. 60	0. 53	0. 47	0. 43	0. 40
TULIP GARDEN	0. 91	0. 87	0. 83	0. 79	0. 75	0. 72
CHROMAKEY CHART	0. 50	0. 30	0. 25	0. 22	0. 20	0. 18
AVERAGE	0. 72	0. 53	0. 44	0. 39	0. 35	0. 32

FIG. 4

	ORIGINAL SIGNAL	FIRST HIERARCHY	SECOND HIERARCHY	THIRD HIERARCHY	FOURTH HIERARCHY	FIFTH HIERARCHY
STANDARD PICTURES						
SKIN-COLOR CHART	30	4	5	5	7	30
YACHT HARBOR	58	13	15	16	17	49
SWEATER AND BAG	56	6	7	8	11	53
EIFFEL TOWER	52	8	9	9	10	49
HAT SHOP	56	8	12	15	18	49
LOVERS IN SNOW	56	4	6	8	10	54
INFORMATION BOARD FOR TOURIST	68	11	15	18	19	61
TULIP GARDEN	52	17	17	17	16	39
CHROMAKEY CHART	55	8	9	9	10	52
AVERAGE	54	9	11	12	13	48

FIG. 5

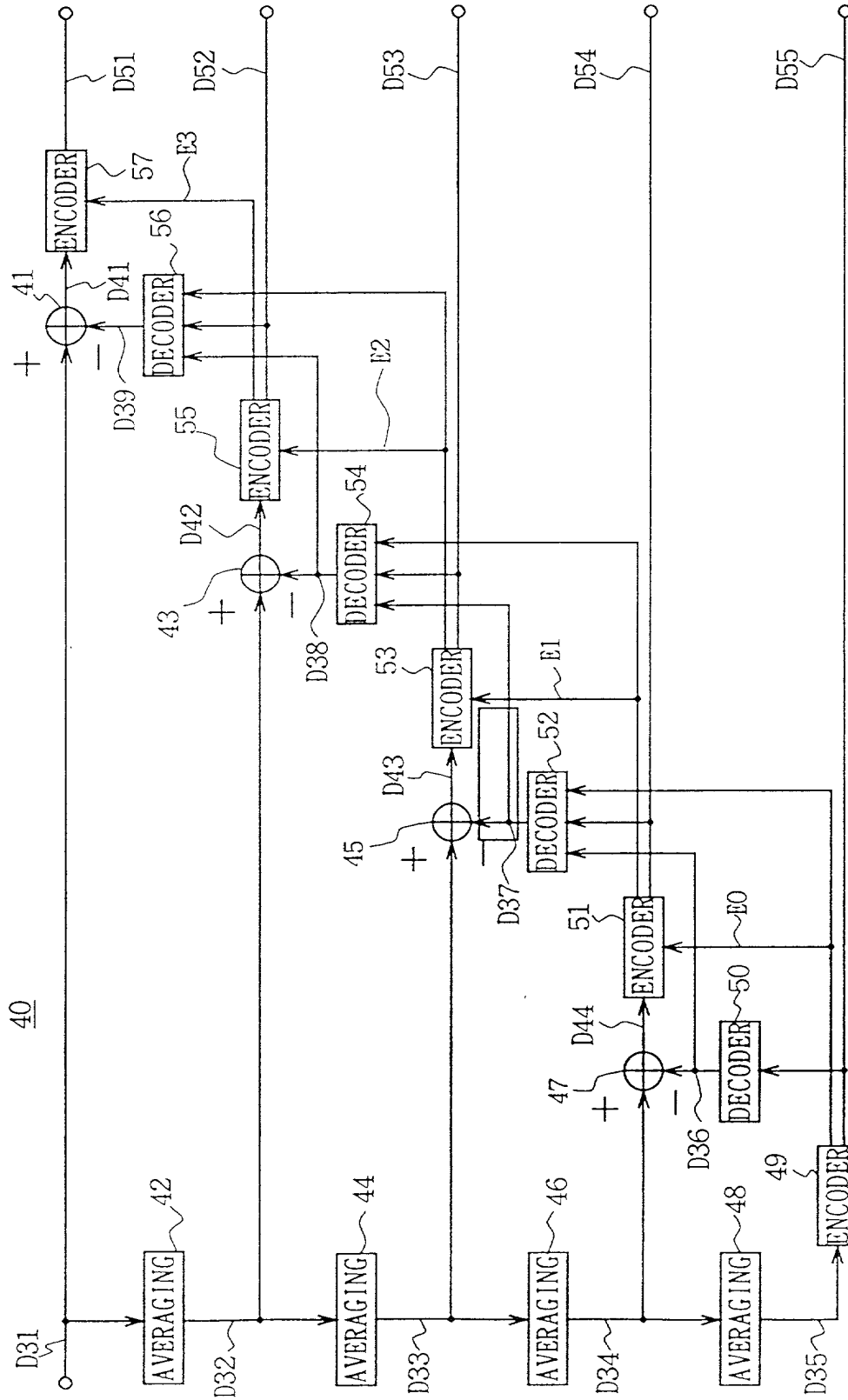


FIG. 6

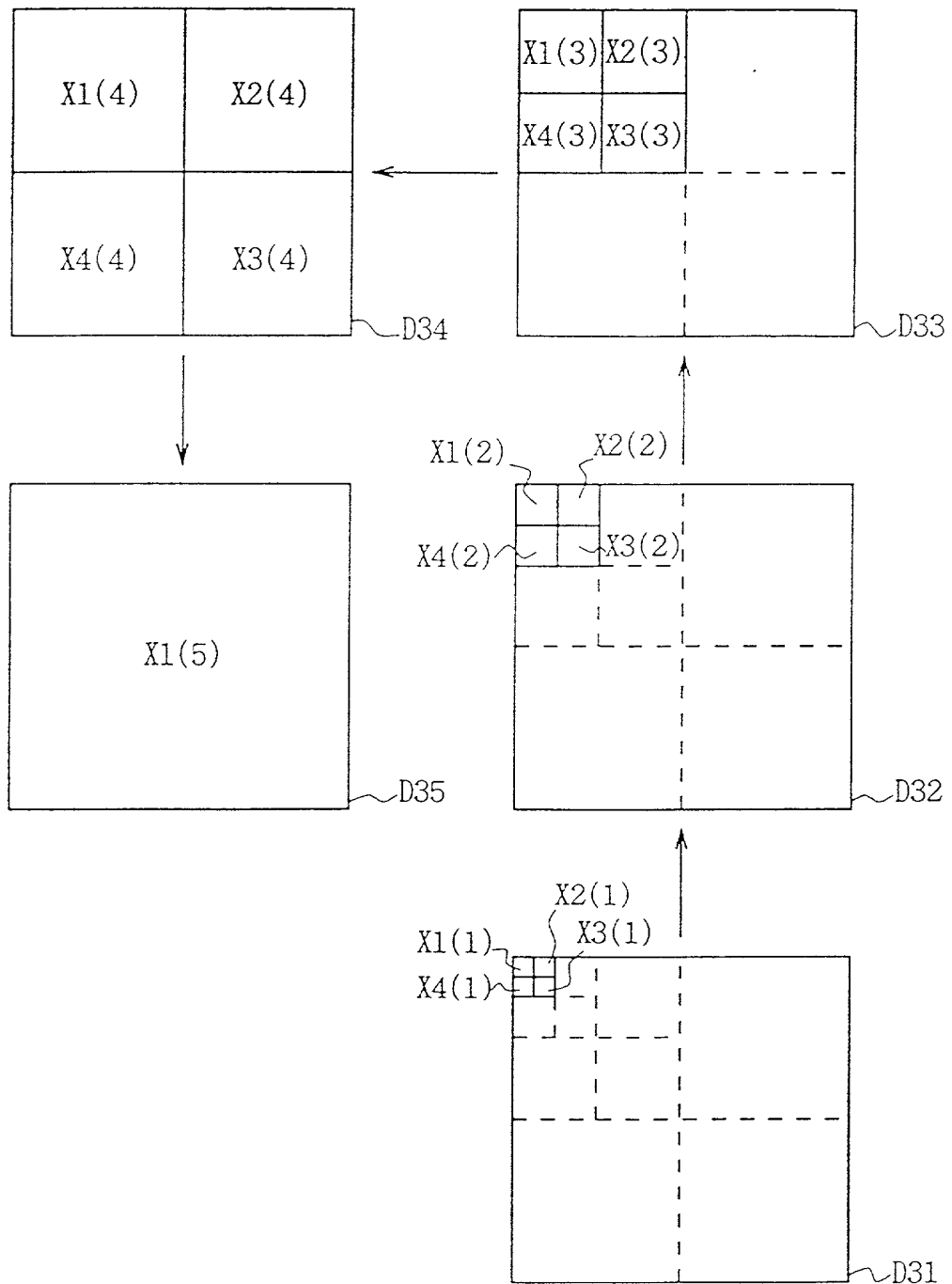


FIG. 7

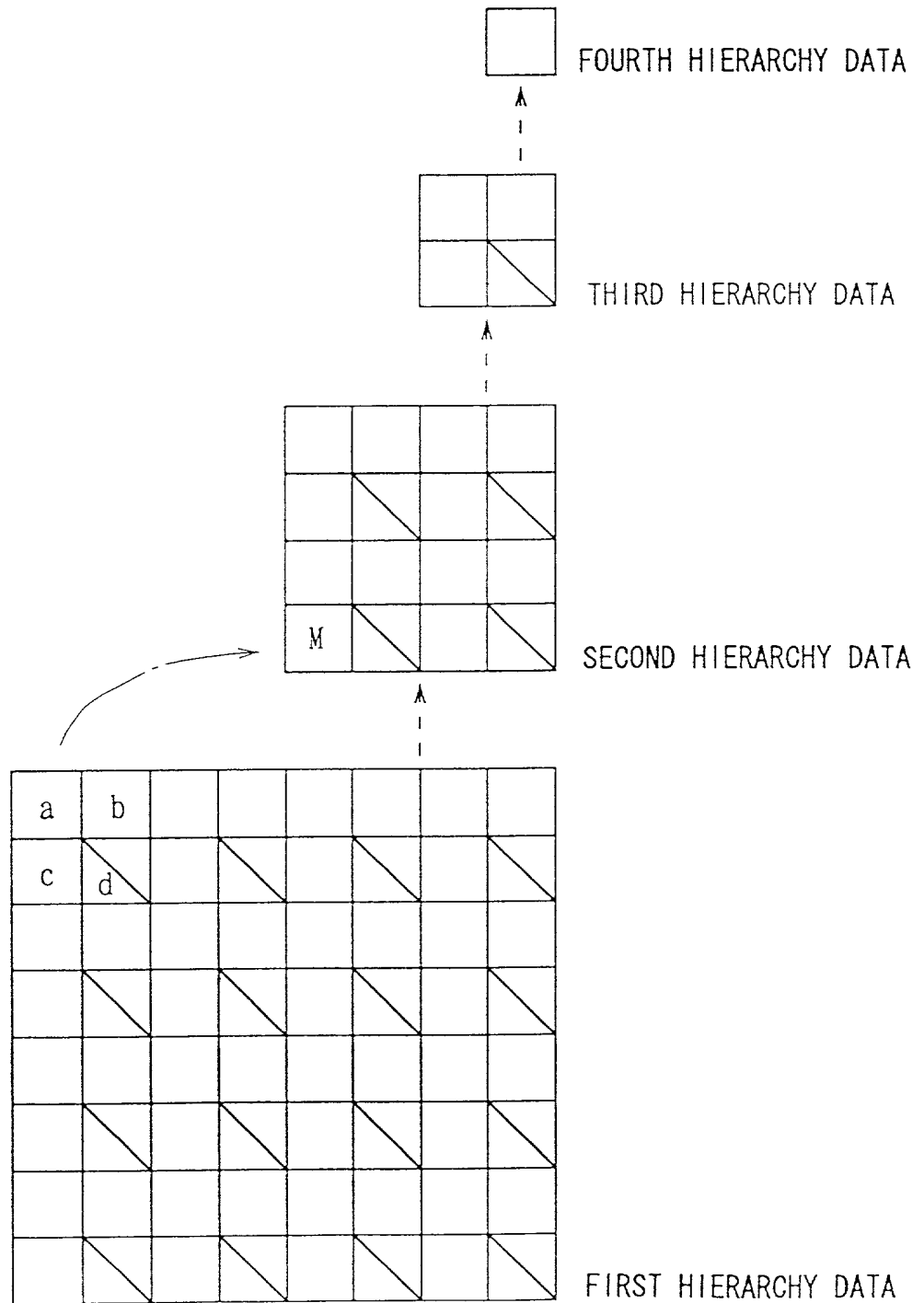


FIG. 8

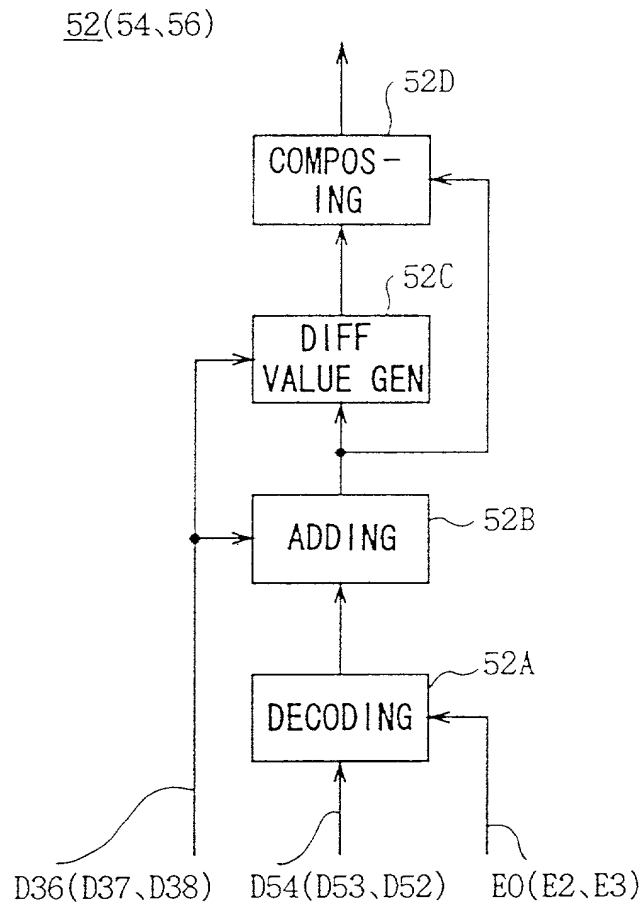


FIG. 9



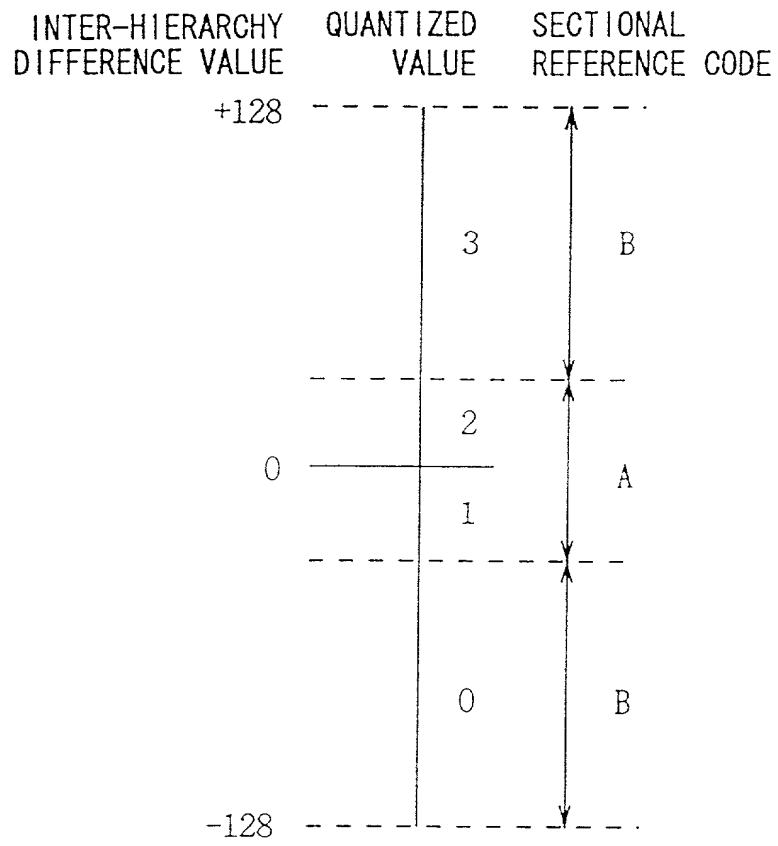


FIG. 10

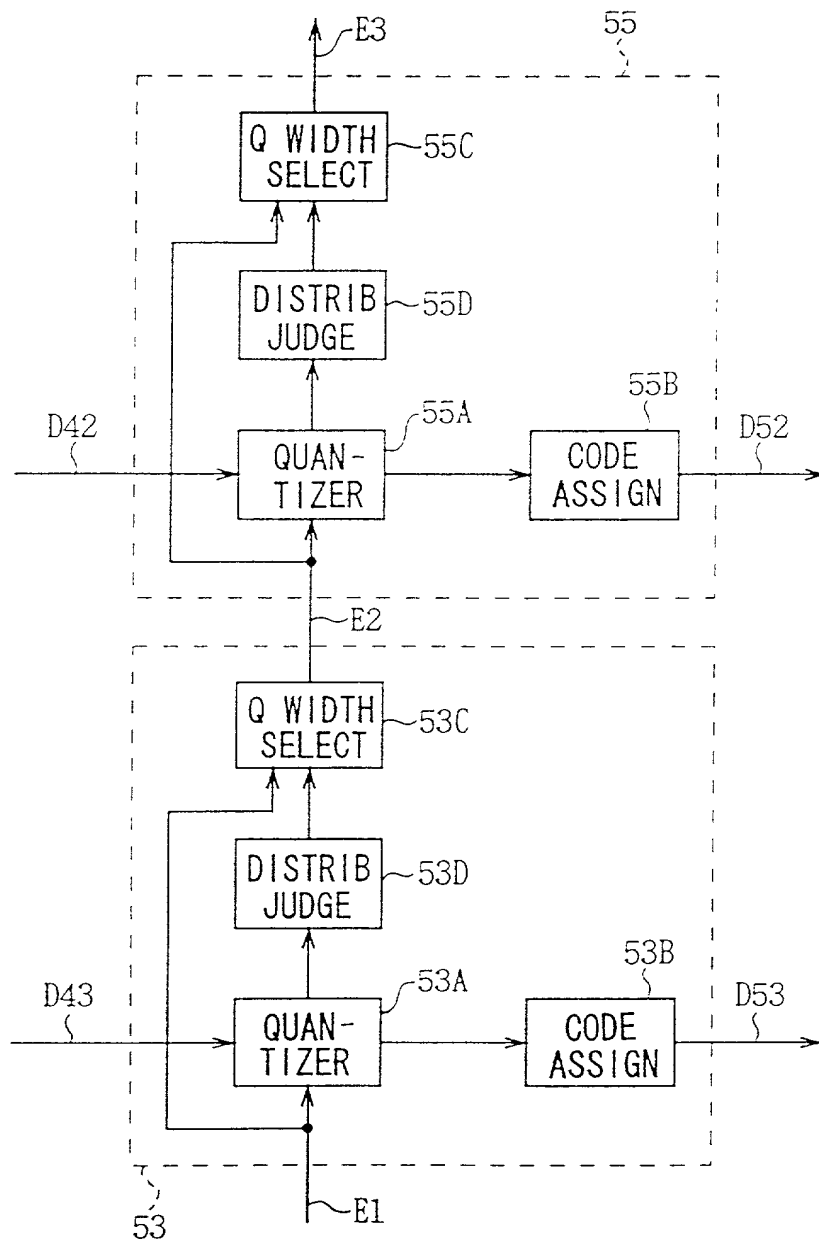


FIG. 11

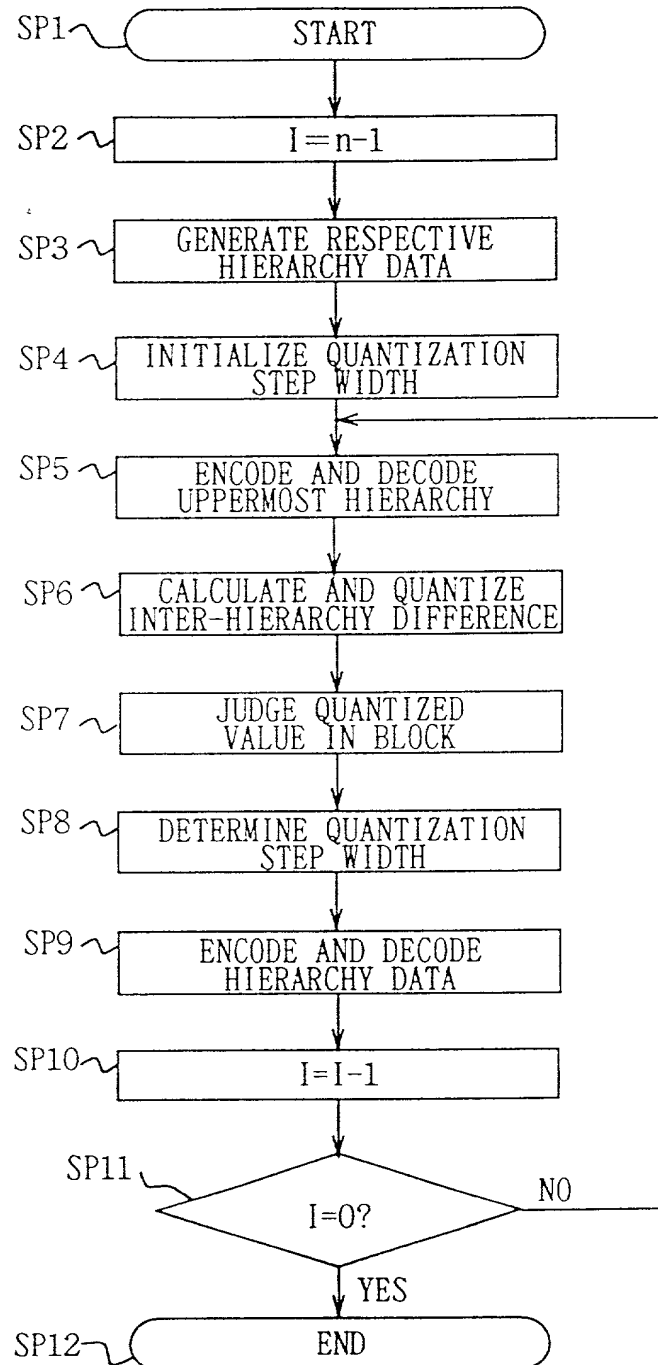


FIG. 12

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LINEAR WEIGHT ;  $w_1(p_0)$

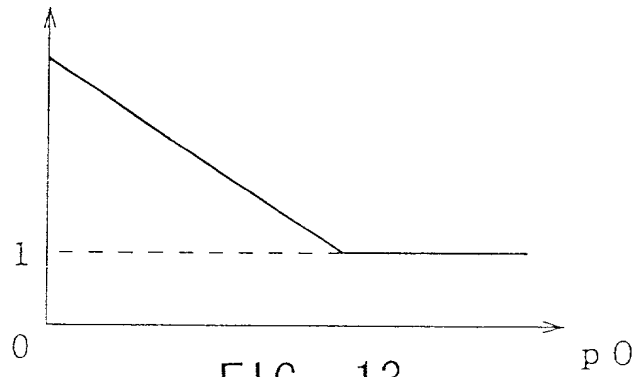
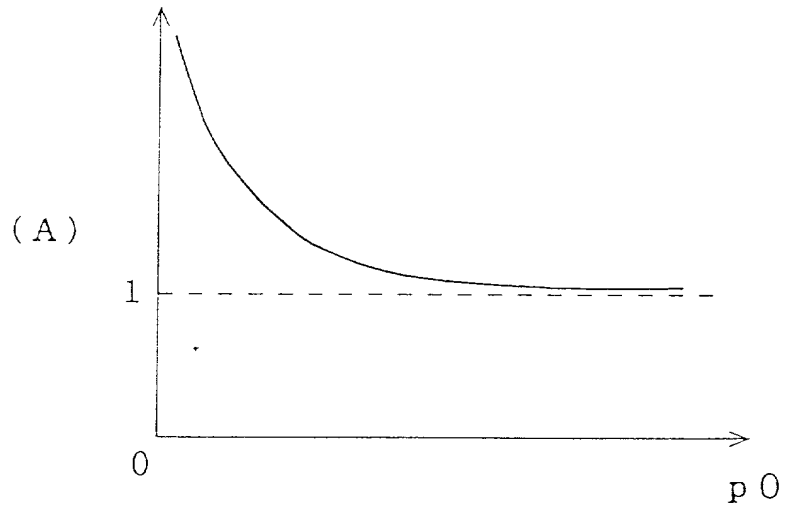


FIG. 13

NON-LINEAR WEIGHT ;  $w_2(p_0)$



NON-LINEAR WEIGHT ;  $w_3(p_0)$

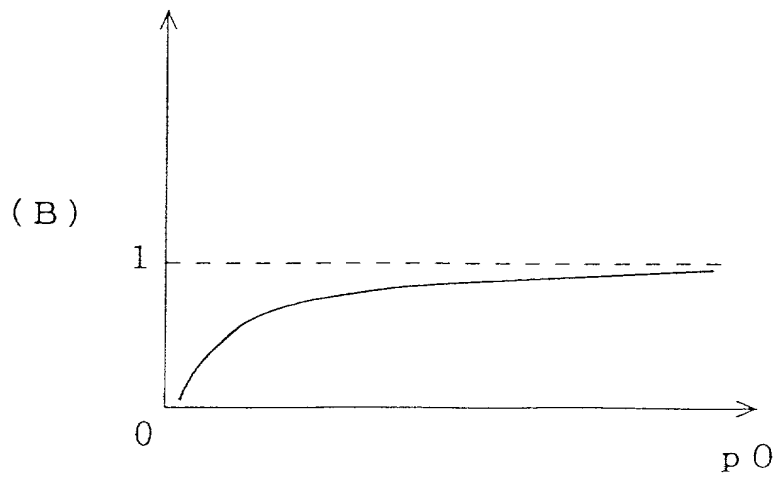


FIG. 14

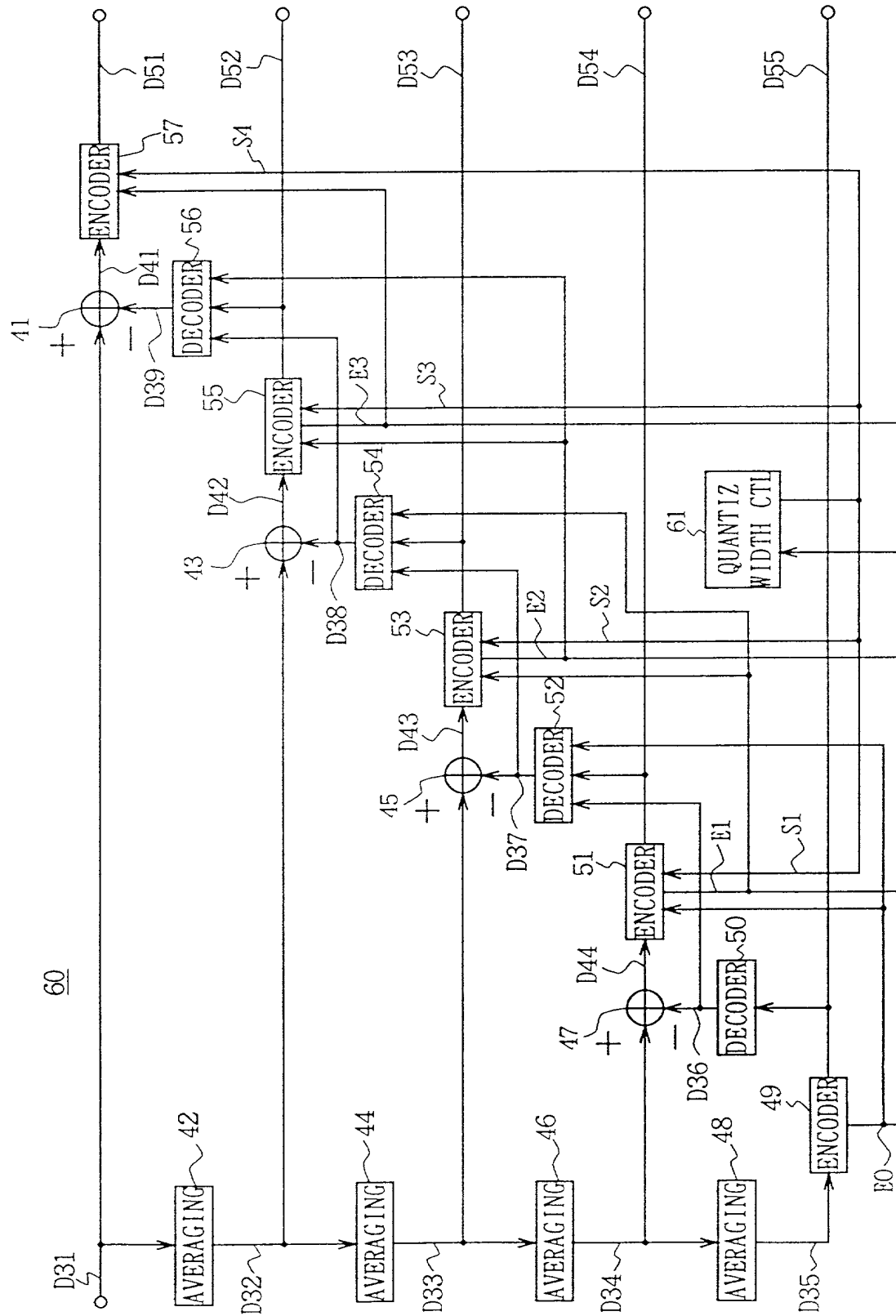


FIG. 15

FIG. 16

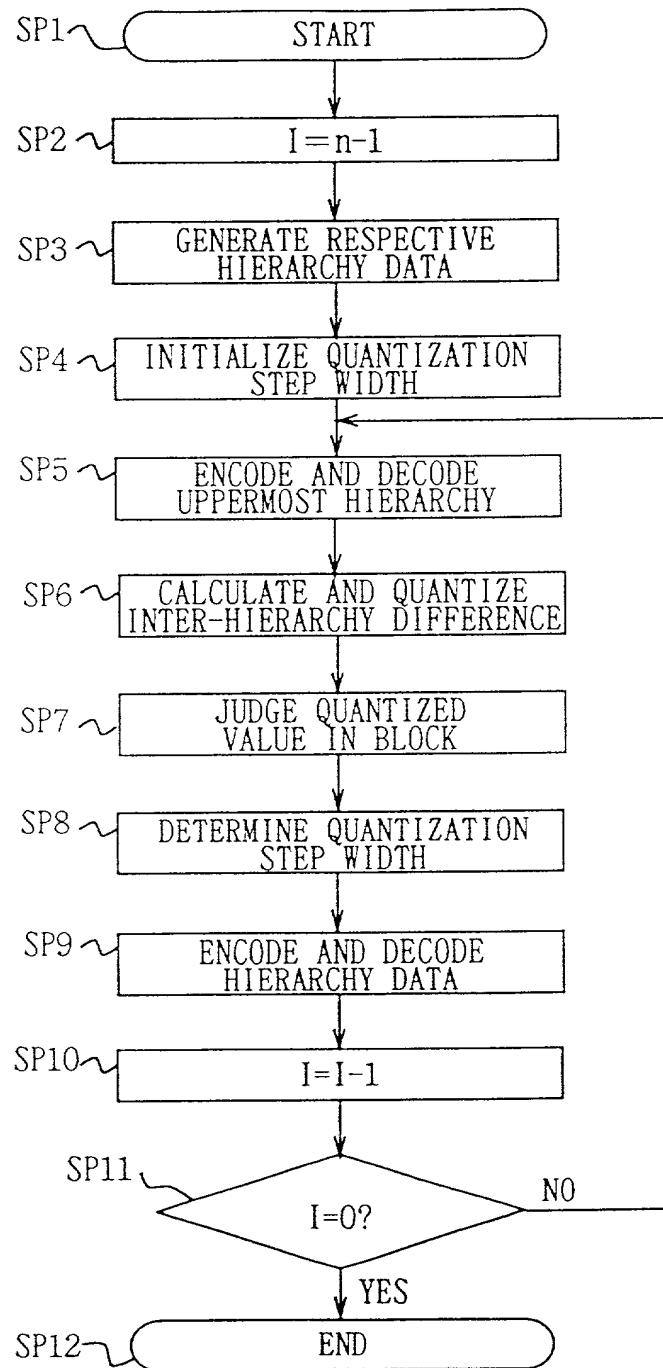


FIG. 17

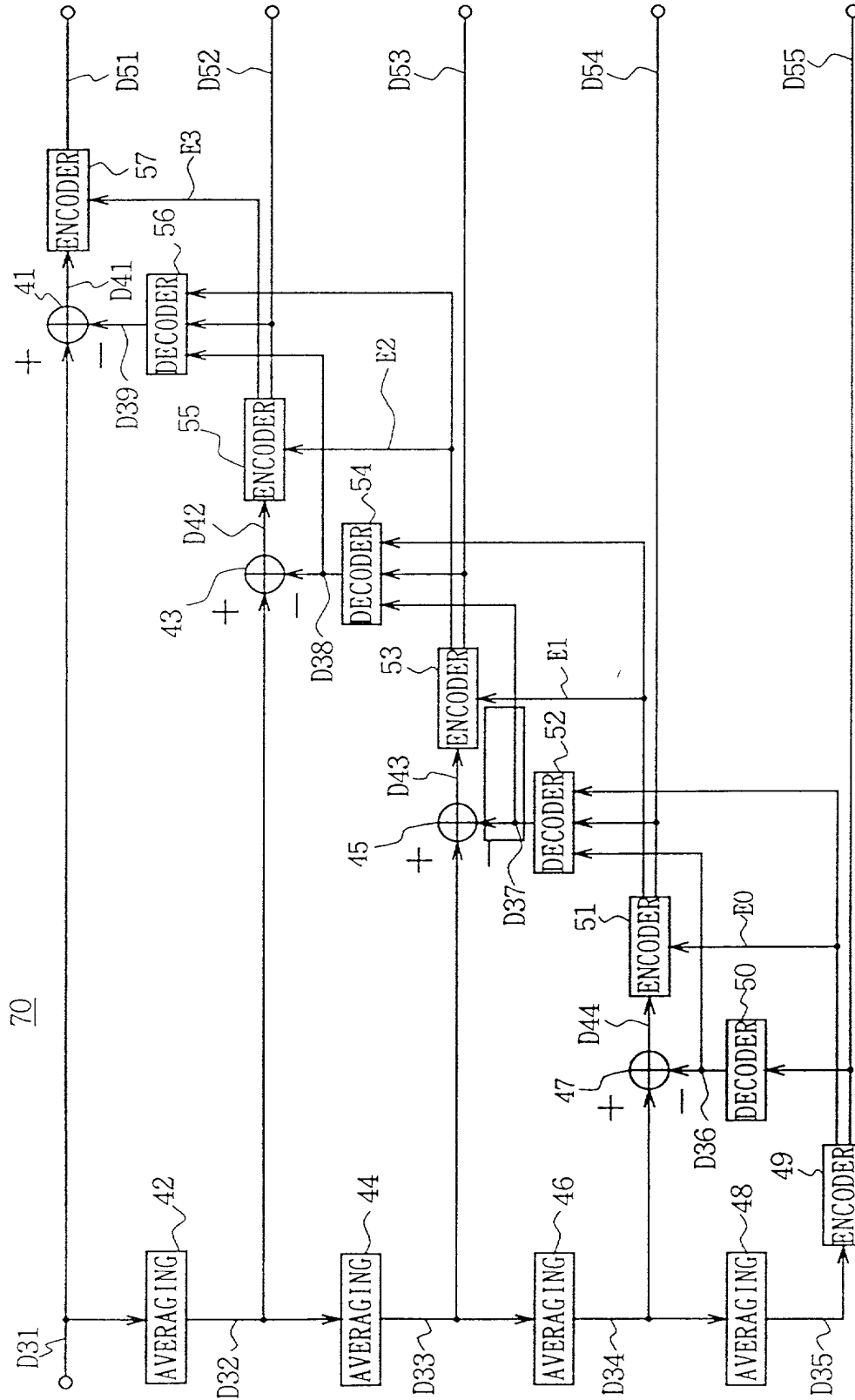


FIG. 18



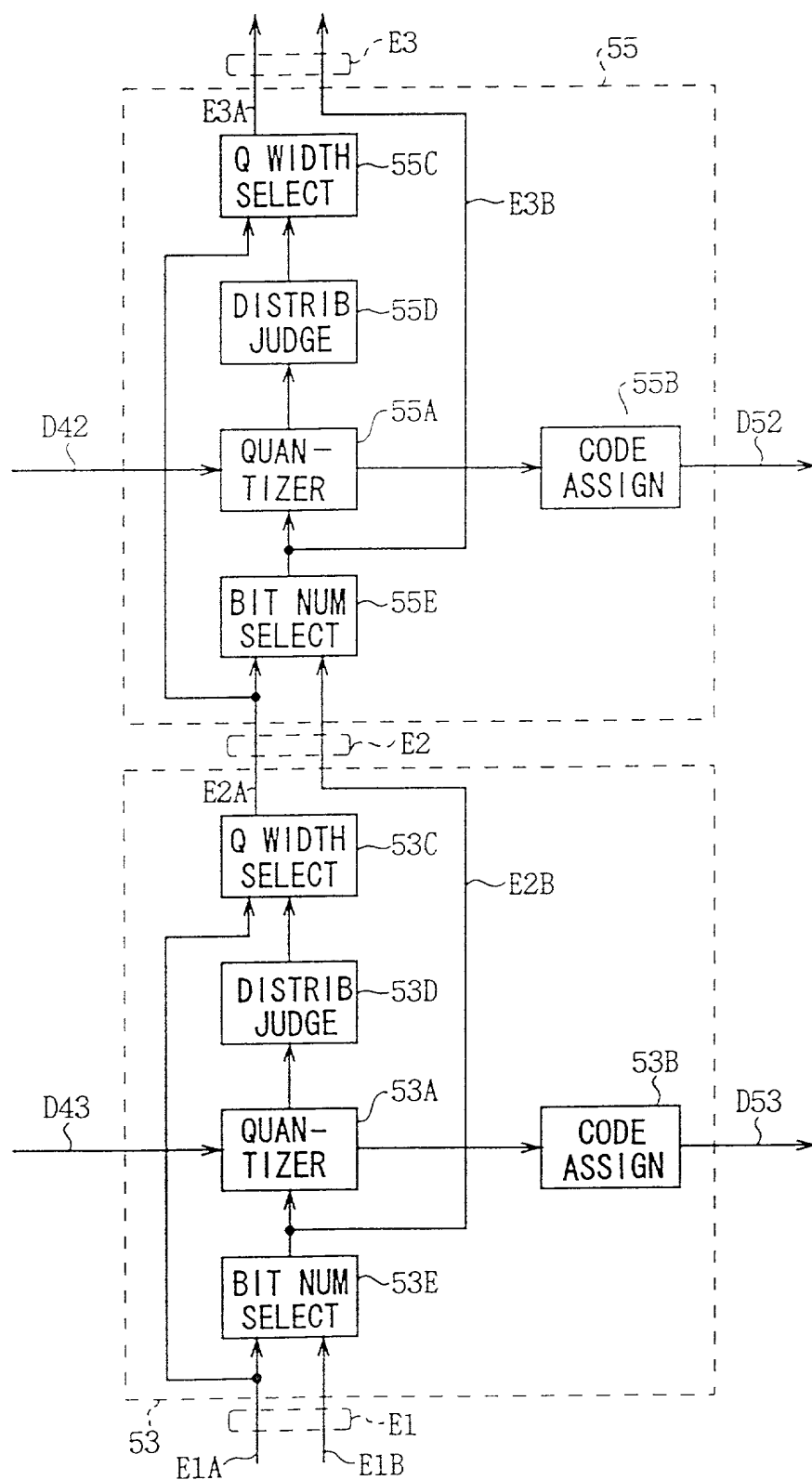


FIG. 19

QUANTIZATION BIT NUMBER  
WEIGHT DETERMINING FUNCTION ;  $f_0(p_0)$

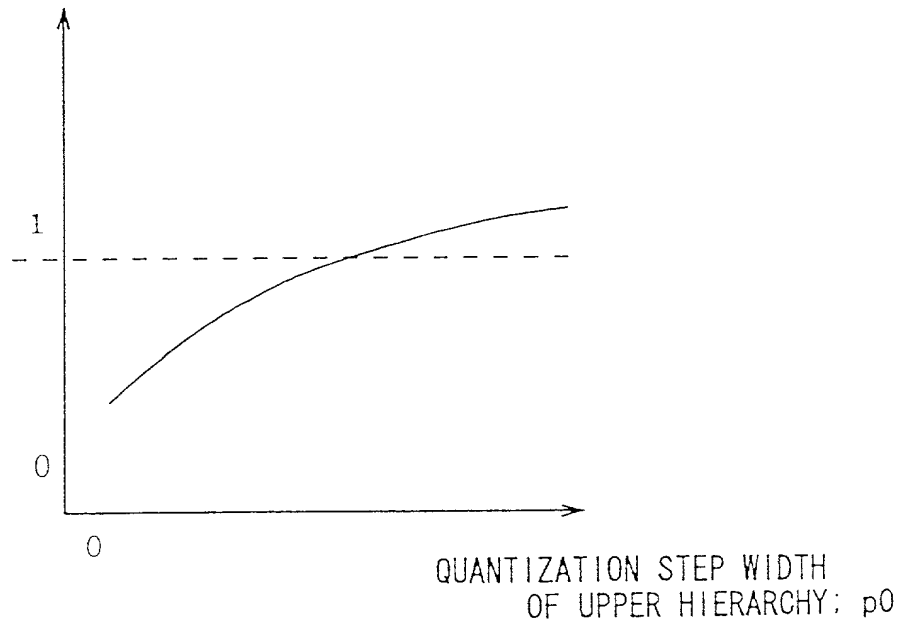


FIG. 20

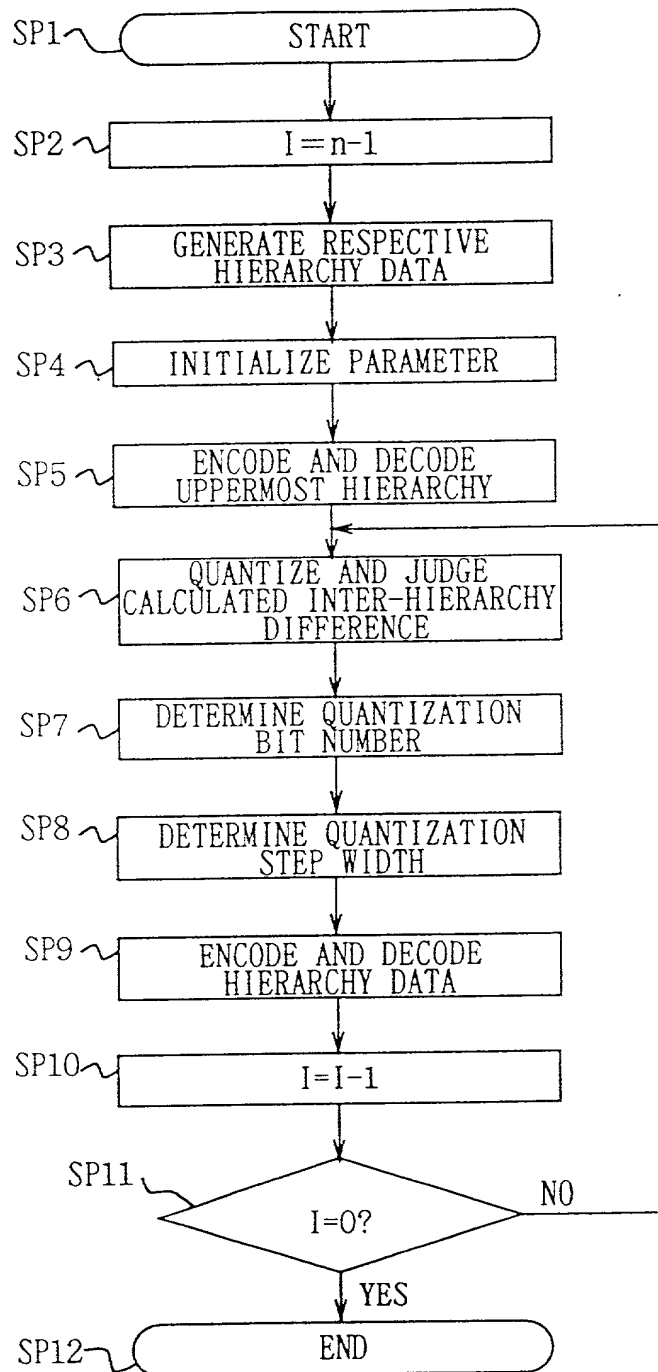


FIG. 21

QUANTIZATION BIT NUMBER  
WEIGHT DETERMINING FUNCTION :  $f_1(p_{tn})$

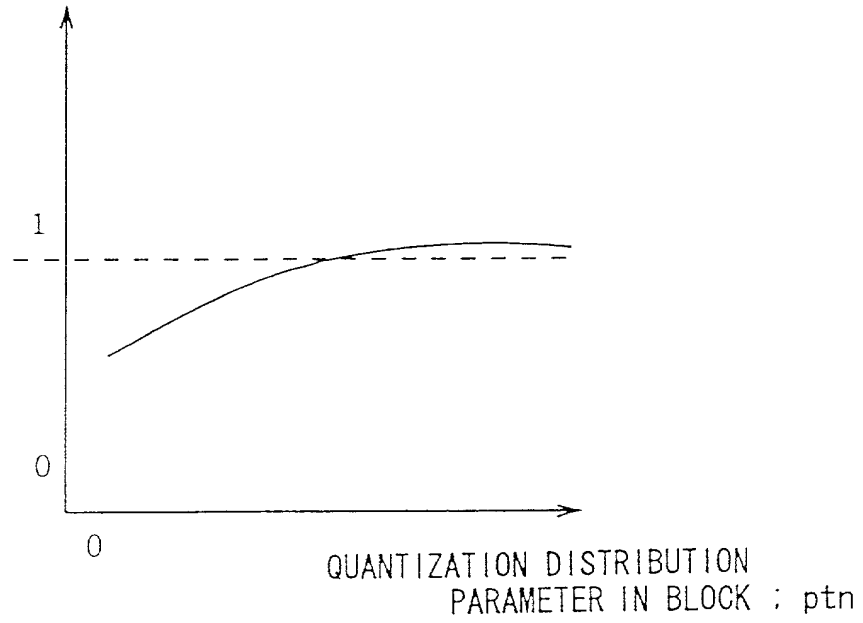


FIG. 22

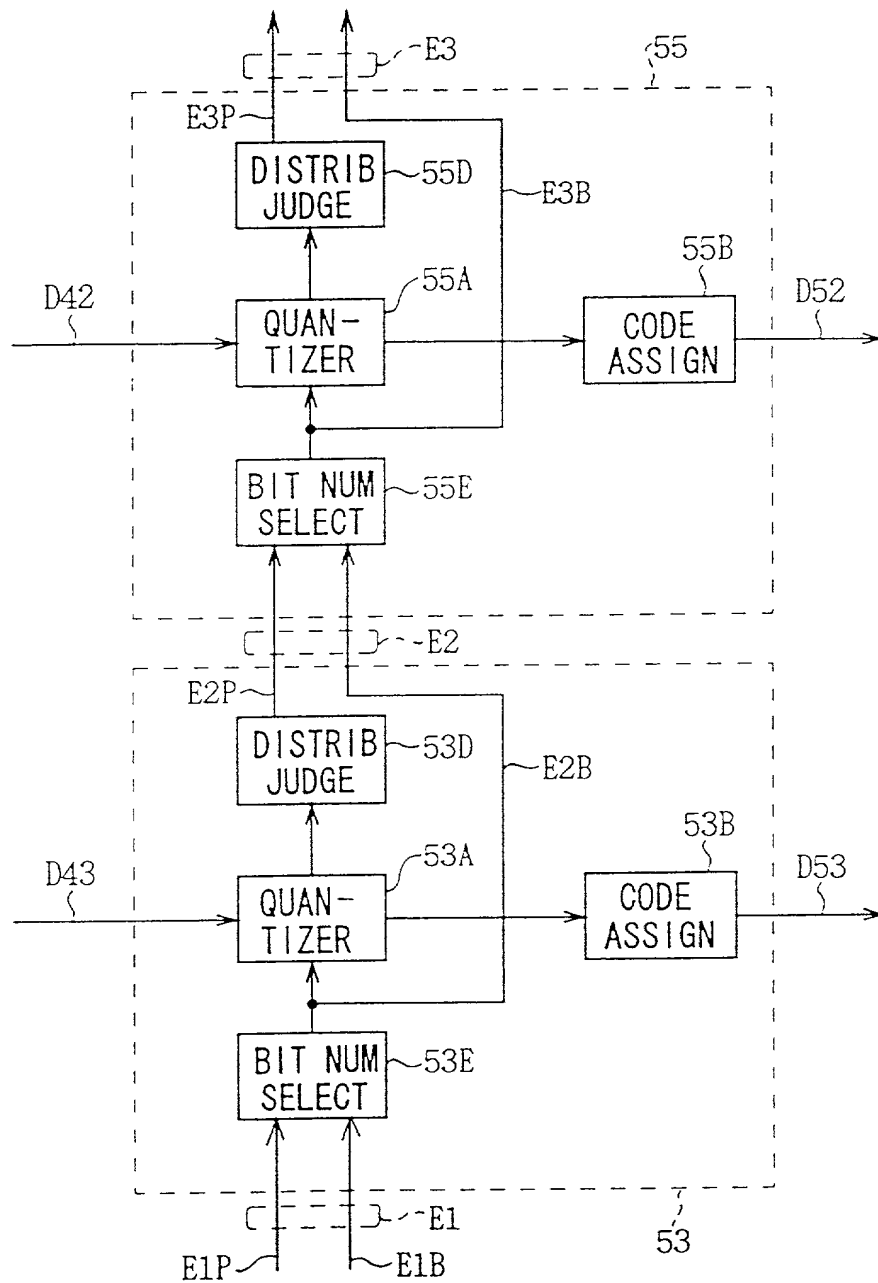
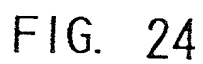


FIG. 23



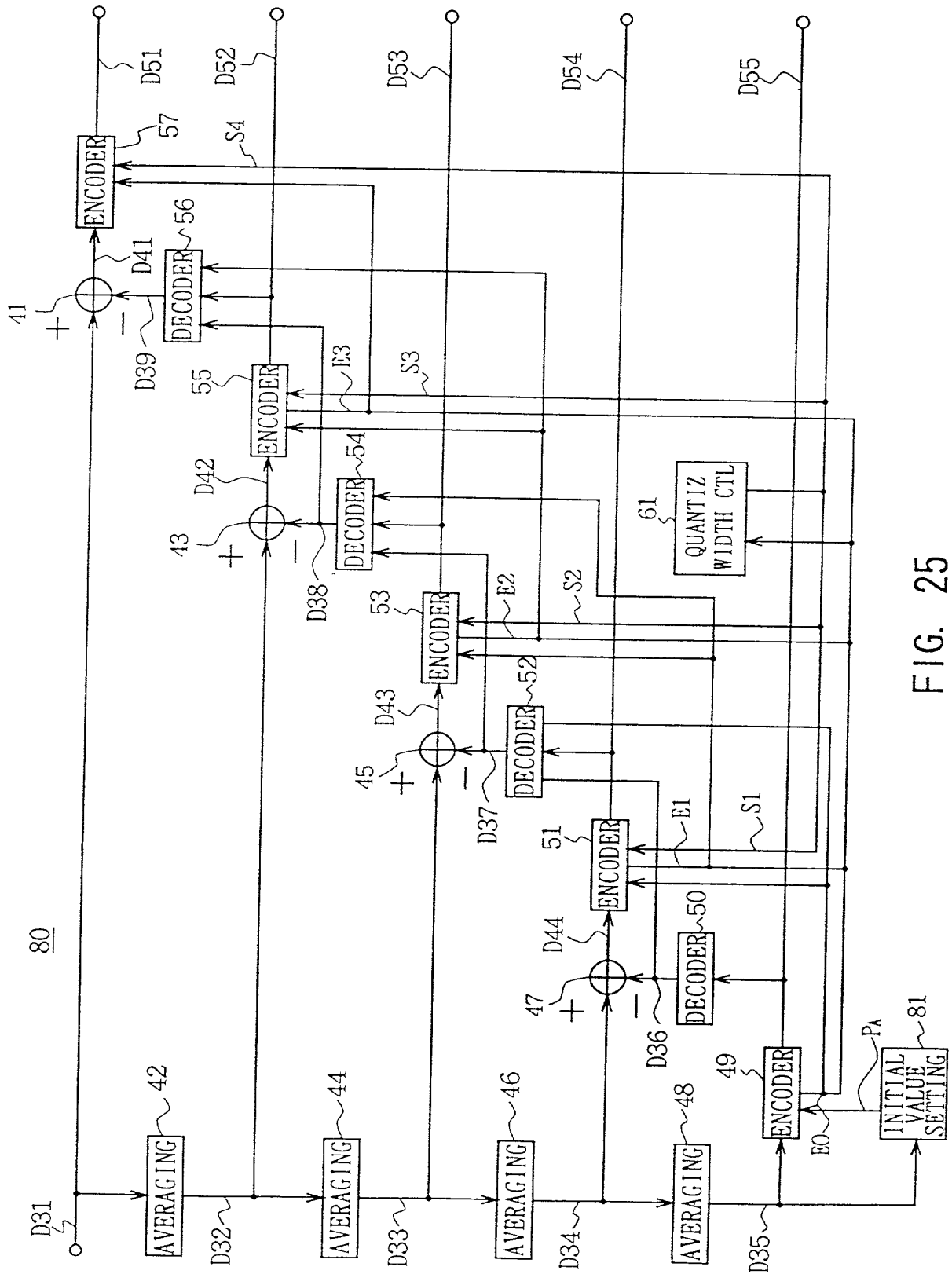


FIG. 25

X 0	X 1	X 2
X 7	m	X 3
X 6	X 5	X 4

FIG. 26

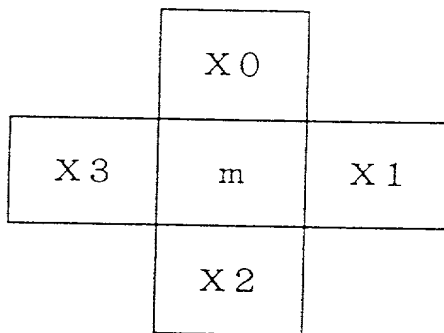


FIG. 28



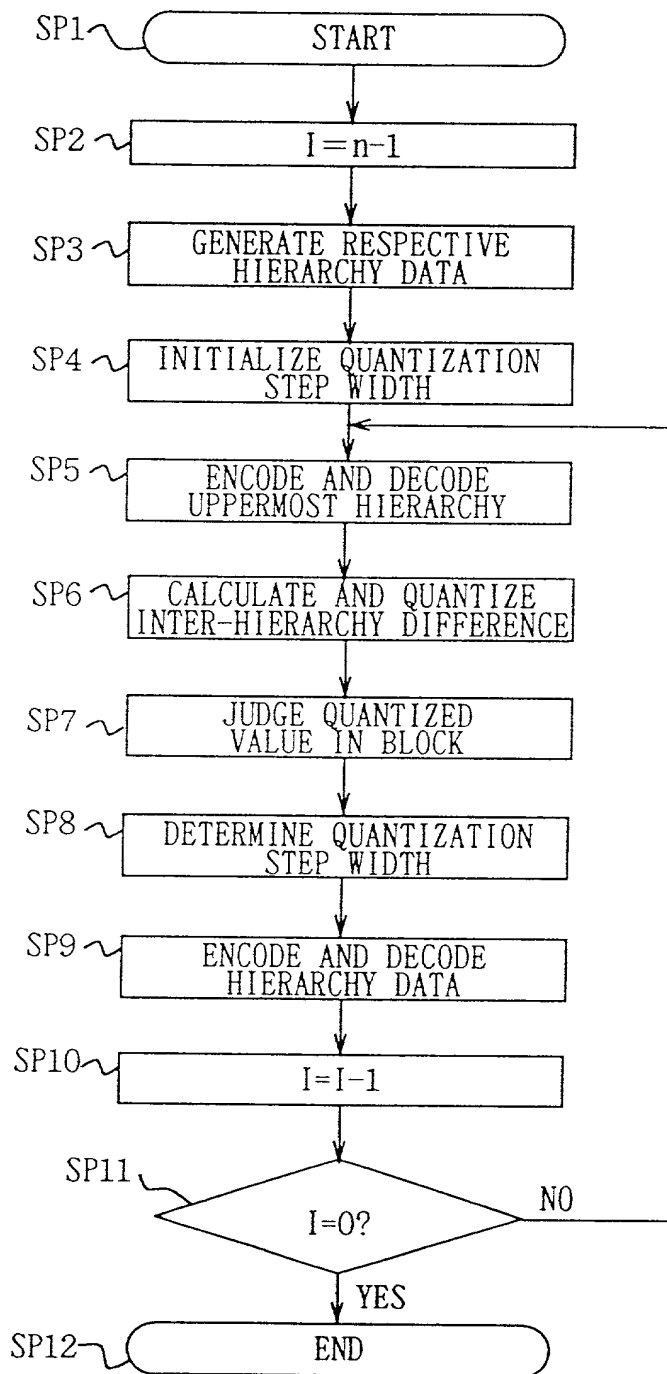


FIG. 27

X 0	X 1	X 2	X 3	X 4
		m		

FIG. 29

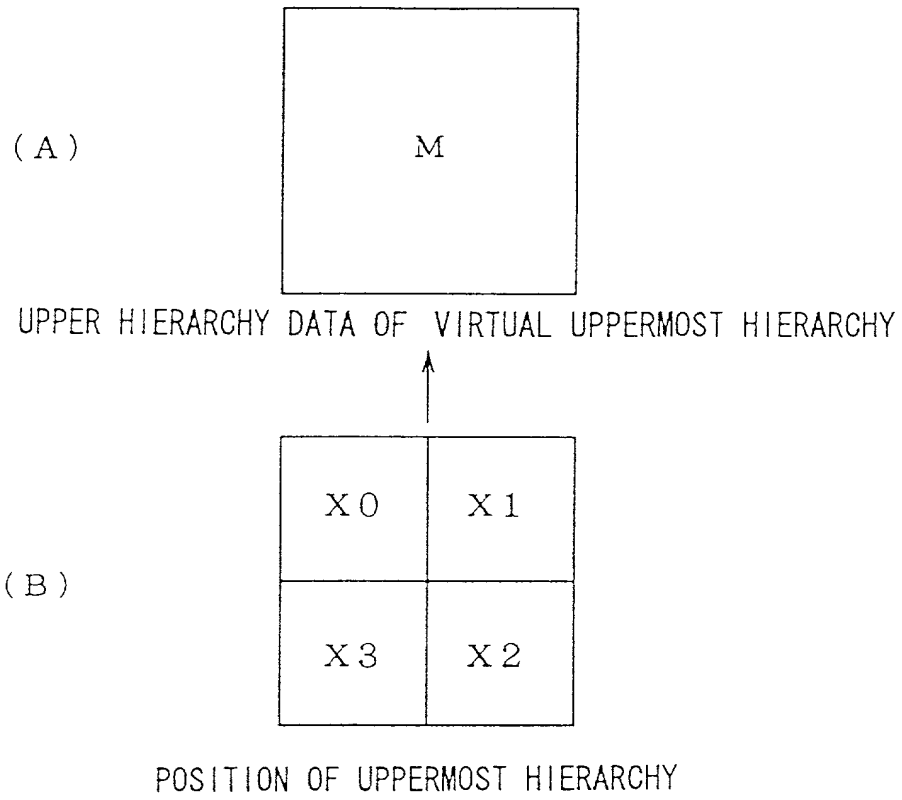


FIG. 30